

PATENT ABSTRACTS OF JAPAN

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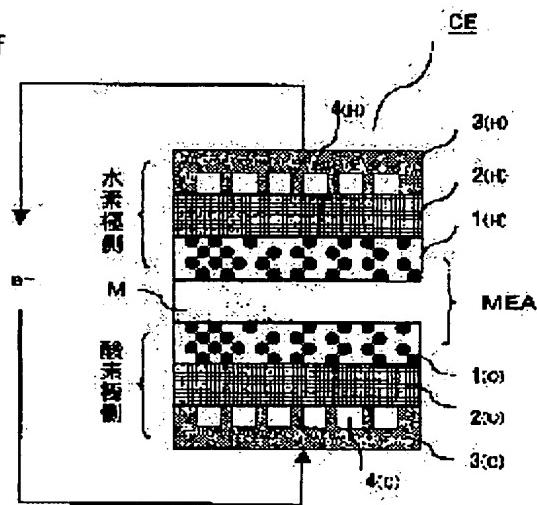
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(54) ELECTRODE STRUCTURE FOR FUEL CELL AND ITS MANUFACTURING METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electrode structure for a fuel cell which has high durability even in a temperature cycle from below zero degrees up to more than 85° C with prevention of peel off of an interface between an electrolyte membrane M and an electrolyte catalyst layer 1.

SOLUTION: The electrode structure composed of a pair of electrode catalyst layers and an electrolyte membrane pinched by them, catalyst of at least one side face of which former infiltrates into the latter to integrate the electrode catalyst layers and the electrolyte membrane, catalyst-dispersed organic solvent slurries in which the catalyst is dispersed in an organic solvent dissolving the electrolyte membrane are directly applied at least on one face of the electrolyte membrane, and then, the catalyst is made to infiltrate into the electrolyte membrane by heating under pressure, to integrally form the electrode catalyst layers on the electrolyte membrane.



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